



**PATENT**  
Attorney Docket No. 400694/YPLEE

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:

YAMAGUCHI et al.

Application No. 09/587,340

Art Unit: 2834

Filed: June 5, 2000

Examiner: K. Addison

For: FLAT CORE BRUSHLESS MOTOR

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**AMENDMENTS TO SPECIFICATION, CLAIMS, AND ABSTRACT  
MADE IN RESPONSE TO OFFICE ACTION DATED MAY 9, 2002**

*Amendments to existing claims:*

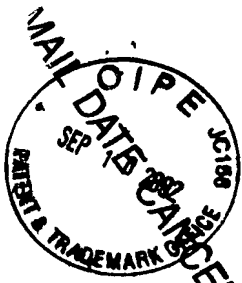
Cancel claims 1-9.

*Add the following claims:*

10. (New) A flat core brushless motor comprising:
- a rotor case;
  - a stator including a plurality of stator cores, each stator core having a protruding pole and an armature coil wound around the protruding pole;
  - a stator base having a generally planar portion including a plurality of through holes, each through hole receiving part of a respective armature coil, and a plurality of supports bent from and transverse to the generally planar portion, the plurality of supports supporting the stator, the plurality of supports and the plurality of stator coils being equal in number;
  - a shaft fixedly mounted to the stator base, at a center of the stator base, and extending through a center of the rotor case;
  - a flexible circuit board located between the stator base and the stator, having a plurality of holes smaller than the through holes, located opposite respective through holes, and covering edges of the respective through holes; and
  - a bearing located intermediate the supports and the shaft, rotatingly supporting the rotor case on the shaft.

In re Appln. of Yamaguchi et al.  
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11. (New) The flat core brushless motor as claimed in claim 10 wherein each of the stator cores includes a recess complementary to and receiving the corresponding support.



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PENDING CLAIMS AFTER AMENDMENTS  
MADE IN RESPONSE TO OFFICE ACTION DATED MAY 9, 2002

10. A flat core brushless motor comprising:
- a rotor case;
  - a stator including a plurality of stator cores, each stator core having a protruding pole and an armature coil wound around the protruding pole;
  - a stator base having a generally planar portion including a plurality of through holes, each through hole receiving part of a respective armature coil, and a plurality of supports bent from and transverse to the generally planar portion, the plurality of supports supporting the stator, the plurality of supports and the plurality of stator coils being equal in number;
  - a shaft fixedly mounted to the stator base, at a center of the stator base, and extending through a center of the rotor case;
  - a flexible circuit board located between the stator base and the stator, having a plurality of holes smaller than the through holes, located opposite respective through holes, and covering edges of the respective through holes; and
  - a bearing located intermediate the supports and the shaft, rotatably supporting the rotor case on the shaft.

11. The flat core brushless motor as claimed in claim 10 wherein each of the stator cores includes a recess complementary to and receiving the corresponding support.